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ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION NO. FILING DATE FIRST NAMED INVENTOR NOBUAKI HASHIMOTO 105030 8576 02/29/2000 09/486,561 08/14/2002 25944 7590 OLIFF & BERRIDGE, PLC EXAMINER P.O. BOX 19928 CRUZ, LOURDES C ALEXANDRIA, VA 22320 ART UNIT PAPER NUMBER 2827

DATE MAILED: 08/14/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | | | | W. |
|---|---|-----------------------|--------------------|---|-----------------|
| | | Application No. | | Applicant(s) | () ' |
| | · Office Action Summary | 09/486,561 | | HASHIMOTO, NOBUAKI | |
| í | | Examiner | | Art Unit | |
| | | Lourdes C. Cruz | | 2827 | |
| Period | The MAILING DATE of this communication app for Reply | pears on the cover | sheet with the co | orrespondence ad | dress |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status | | | | | |
| 1)[| Responsive to communication(s) filed on 13 | <u>May 2002</u> . | | | |
| 2a)[| ☐ This action is FINAL . 2b)☐ Th | nis action is non-fir | nal. | | |
| 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims | | | | | |
| 4)[| Claim(s) <u>1,2,4-8,10-12,14-16,21 and 22</u> is/are | e pending in the ap | plication. | | |
| | 4a) Of the above claim(s) <u>1-7</u> is/are withdrawn | from consideratio | n. | | |
| 5)[| Claim(s) is/are allowed. | | | | |
| 6)[| | | | | |
| 7)[| Claim(s) is/are objected to. | | | | |
| • | ☑ Claim(s) <u>1-7</u> are subject to restriction and/or e ation Papers | election requiremen | nt. | | |
| 9)[| \centcal{eta} The specification is objected to by the Examine | er. | | | |
| 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. | | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | |
| 11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner. | | | | | |
| If approved, corrected drawings are required in reply to this Office action. | | | | | |
| 12)[| ☐ The oath or declaration is objected to by the E> | kaminer. | | | |
| Priorit | y under 35 U.S.C. §§ 119 and 120 | | | | |
| 13)[| Acknowledgment is made of a claim for foreign | n priority under 35 | U.S.C. § 119(a) |)-(d) or (f). | |
| | a)⊠ All b)□ Some * c)□ None of: | | | | |
| | 1. Certified copies of the priority document | ts have been recei | ved. | | |
| | 2. Certified copies of the priority document | ts have been recei | ved in Application | on No | |
| | 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | |
| | Acknowledgment is made of a claim for domest | | | | l application). |
| | a) ☐ The translation of the foreign language pro Acknowledgment is made of a claim for domest | ovisional applicatio | on has been rece | eived. | |
| Attachm | | , | 00.7 | | |
| 1) 🔯 N 2) 🔲 N | otice of References Cited (PTO-892) otice of Draftsperson's Patent Drawing Review (PTO-948) formation Disclosure Statement(s) (PTO-1449) Paper No(s) _ | 5) 🗌 | - | (PTO-413) Paper No atent Application (PT | |

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DETAILED ACTION

Although claims 1 and 2 have been amended, they are not considered for they are drawn to a non-elected invention. Also, see Office Action mailed 12-20-00.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 16 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 16 recites, "said second portion". This term lacks antecedent basis. Also, because of the lack of antecedent basis, the claim has been rendered confusing, and has been examined only as best understood.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily

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published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 8,10-11,14-16,21 and 22 are rejected under 35 U.S.C. 102(e) as being anticipated by Yamada et al. (US5864178).

Yamada discloses a semiconductor device comprising a semiconductor chip 118 having electrodes 123; a substrate 119 having an interconnect pattern 121; and an adhesive 122; wherein said electrodes and said interconnect pattern are electrically connected; and wherein said adhesive is interposed between a surface of said substrate on which said interconnect pattern and a surface of said semiconductor chip on which said electrodes are formed, and said adhesive covers substantially all of a lateral (surface with no electrodes formed on it) surface (see that lateral surface reads on either the surface on which the electrodes are formed and the surfaces adjacent to it which have no electrodes) surface of said chip.

Yamada et al. also discloses:

- Conductive particles (Col. 5, lines 55+)
- See that said adhesive containing said particles covers said interconnect pattern in its entirety.
- Wherein at least a part of the adhesive has a thickness substantially equal to the chip

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yamada et al. in view of Canning et al. (US 5783465).

Yamada et al. fails to specifically disclose a shading material. See that Canning et al. teaches a shading material "pigment" (Col. 5, lines 14+). It would have been obvious to one with ordinary skill in the art at the time the invention was made to combine the teachings of Canning et al. to those of Yamada et al. in order to provide shielding against reflected light.

Applicant's arguments with respect to the claims have been considered but are most in view of the new ground(s) of rejection.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Lourdes C. Cruz whose telephone number is 703-306-

5691. The examiner can normally be reached on M-F 10:00- 6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David L. Talbott can be reached on 703-305-9883. The fax phone numbers

for the organization where this application or proceeding is assigned are 703-308-7722

for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-

0956.

Lourdes C. Cruz

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Examiner

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Lourdes Cruz August 10, 2002

KAMAND CUNEO

PRIMARY EXAMINER